

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"030331".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 06:53
L2	38	(natural with language with (quer\$3 or search\$3) with (analys\$3 or analyz\$3)) and ((quer\$3 or search\$3) with vector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:44
L3	1357	(pars\$3 with (parallel or concurrent\$3 or simultaneous\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 06:56
L4	6	2 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 06:56
L5	0	4 and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 06:57
L6	2	2 and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:44
L7	3	3 and (quer\$3 with vector) and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:46
L8	2049	((generat\$3 or creat\$3) with (search\$3 or quer\$3) with vector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:07

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L9	2191	((analyz\$3 or analys\$3) with structur\$3 with (quer\$3 or search\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:07
L10	32	8 and 9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:08
L11	2	10 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:08
L12	1	11 and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:08
L13	22	(natural with language with (quer\$3 or search\$3) with (analys\$3 or analyz\$3)) and ((quer\$3 or search\$3)) and (weight\$3 with vector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:44
L14	0	13 and 8 and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:44
L15	1	13 and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:45
L16	1	13 and (quer\$3 with vector) and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:46

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L17	1	13 and (707/3).ccls. and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 07:47
L18	0	13 and (707/4).ccls. and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 08:42
L19	0	13 and 3 and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 09:20
L20	1	(nlq with pars\$3) and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 09:23
L21	0	(nlq) and (quer\$3 with weight) and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 09:24
L22	0	(nlq) and (quer\$3 with weight\$3) and @ad<"19990702"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 09:24

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1 [Information storage and retrieval: a survey and functional description](#)



Jack Minker

 September 1977 **ACM SIGIR Forum**, Volume 12 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(5.14 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Information Storage and Retrieval (IS&R) encompasses a broad scope of topics ranging from basic techniques for accessing data to sophisticated approaches for the analysis of natural language text and the deduction of information. Within the field, three general areas of investigation can be distinguished not only by their subject matter but also by the types of individuals presently interested in them: (1) Document retrieval, (2) Generalized data management, and (3) Question-answering. A functional ...

Keywords: automatic indexing, data management, data structures, deductive search, information retrieval, natural language, problem solving, question-answering, relational data systems, theorem proving

2 [Distributed representations in a text based information retrieval system: a new way of using the vector space model](#)



Richard F. E. Sutcliffe

 September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '91**

Publisher: ACM Press

 Full text available: [pdf\(1.08 MB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Computational Methods for Intelligent Information Access](#)



Michael W. Berry, Susan T. Dumais, Todd A. Letsche

 December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '95**

Publisher: ACM Press

 Full text available: [pdf\(375.60 KB\)](#)
[html\(3.13 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#)

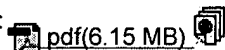
4 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Publisher: MIT Press

Full text available:



Additional Information: [full citation](#)

[Publisher Site](#)

5 Selected Information Retrieval Abstracts

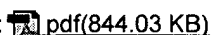


Gerry Salton

November 1990 **ACM SIGIR Forum**, Volume 24 Issue 3

Publisher: ACM Press

Full text available:



Additional Information: [full citation](#)

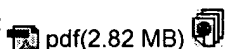
6 Natural language querying of historical databases

James Clifford

December 1988 **Computational Linguistics**, Volume 14 Issue 4

Publisher: MIT Press

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

[Publisher Site](#)

In this paper we examine the connection between two areas of semantics, namely the semantics of historical databases and the semantics of natural language querying, and link them together via a common view of the semantics of time. Since the target application domain is an historical database, we present the essential features of the Historical Relational Database Model (HRDM), an extension to the relational model motivated by the desire to incorporate more "real world" semantics into a database ...

7 Natural language navigation in multimedia archives: an integrated approach

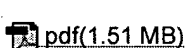


Ingo Glöckner, Alois Knoll

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1) MULTIMEDIA '99**

Publisher: ACM Press

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The paper presents the design and prototypical implementation of an integrated retrieval system (HPQS) which provides natural language access to multimedia documents in restricted topic areas. It supports new flexible ways of querying by combining a semantically rich retrieval model based on fuzzy set theory with domain-specific methods for document analysis which can be applied online (i.e. the search criteria are not restricted to combinations of anticipated descriptors). Emphasis is put ...

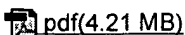
8 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the

execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

9 New methods for relevance feedback: improving information retrieval performance



Paul V. Biron, Donald H. Kraft

February 1995 **Proceedings of the 1995 ACM symposium on Applied computing SAC '95**

Publisher: ACM Press

Full text available: [pdf\(806.01 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Domain-independent natural language interfaces: Problems in natural-language interface to DBMS with examples from EUFID

Marjorie Templeton, John Burger

February 1983 **Proceedings of the first conference on Applied natural language processing**

Publisher: Association for Computational Linguistics

Full text available: [pdf\(1.18 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

For five years the End-User Friendly Interface to Data management (EUFID) project team at System Development Corporation worked on the design and implementation of a Natural-Language Interface (NLI) system that was to be independent of both the application and the database management system. In this paper we describe application, natural-language and database management problems involved in NLI development, with specific reference to the EUFID system as an example.

11 The FINITE STRING newsletter: Abstracts of current literature

Computational Linguistics Staff

July 1986 **Computational Linguistics**, Volume 12 Issue 3

Publisher: MIT Press

Full text available: [pdf\(2.25 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#)

12 Special issue on knowledge representation



Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

13 The SIFT information dissemination system



Tak W. Yan, Hector Garcia-Molina

December 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(220.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Information dissemination is a powerful mechanism for finding information in wide-area environments. An information dissemination server accepts long-term user queries, collects new documents from information sources, matches the documents against the queries, and continuously updates the users with relevant information. This paper is a retrospective of the Stanford Information Filtering Service (SIFT), a system that as of April 1996 was processing over 40,000 worldwide subscriptions and over ...

Keywords: Boolean queries, dissemination, filtering, indexing, vector space queries

14 Special issue: AI in engineering



D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.


15 Parallel execution of prolog programs: a survey



Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 23 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.95 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computation ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog


16 Knowledge and natural language processing



Jim Barnett, Kevin Knight, Inderjeet Mani, Elaine Rich

August 1990 **Communications of the ACM**, Volume 33 Issue 8

Publisher: ACM Press

Full text available:  [pdf\(3.85 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

KBNL is a knowledge-based natural language processing system that is novel in several ways, including the clean separation it enforces between linguistic knowledge and world knowledge, and its use of knowledge to aid in lexical acquisition. Applications of KBNL include intelligent interfaces, text retrieval, and machine translation.

Keywords: parsing

17 An approach to natural language for document retrieval

B. Croft

November 1987 **Proceedings of the 10th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '87****Publisher:** ACM PressFull text available: [pdf\(656.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Document retrieval systems have been restricted, by the nature of the task, to techniques that can be used with large numbers of documents and broad domains. The most effective techniques that have been developed are based on the statistics of word occurrences in text. In this paper, we describe an approach to using natural language processing (NLP) techniques for what is essentially a natural language problem - the comparison of a request text with the text of document titles and abstracts ...

18 Statistical query translation models for cross-language information retrieval

Jianfeng Gao, Jian-Yun Nie, Ming Zhou

December 2006 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 5 Issue 4**Publisher:** ACM PressFull text available: [pdf\(706.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Query translation is an important task in cross-language information retrieval (CLIR), which aims to determine the best translation words and weights for a query. This article presents three statistical query translation models that focus on the resolution of query translation ambiguities. All the models assume that the selection of the translation of a query term depends on the translations of other terms in the query. They differ in the way linguistic structures are detected and exploited. ...

Keywords: CLIR, Query translation, linguistic structures, statistical models**19 Session VII: A knowledge engineering approach to natural language understanding**

Stuart C. Shapiro, Jeannette G. Neal

June 1982 **Proceedings of the 20th annual meeting on Association for Computational Linguistics****Publisher:** Association for Computational LinguisticsFull text available: [pdf\(792.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)
 [Publisher Site](#)

This paper describes the results of a preliminary study of a Knowledge Engineering approach to Natural Language Understanding. A computer system is being developed to handle the acquisition, representation, and use of linguistic knowledge. The computer system is rule-based and utilizes a semantic network for knowledge storage and representation. In order to facilitate the interaction between user and system, input of linguistic knowledge and computer responses are in natural language. Knowledge ...

20 Conference abstractsJanuary 1977 **Proceedings of the 5th annual ACM computer science conference CSC '77****Publisher:** ACM PressFull text available: [pdf\(3.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a

quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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